

Generation and Reservoirs Statistics

December 20, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

December 20, 2024

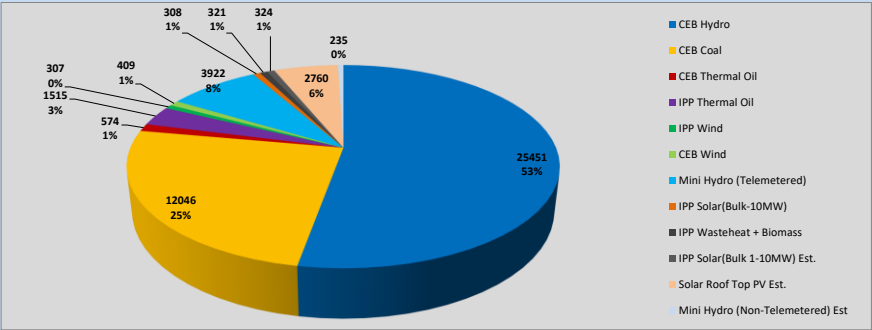


Table 01

	Generation (MWh)
CEB Hydro	25,451
CEB Coal	12,046
CEB Thermal Oil	574
IPP Thermal Oil	1,515
IPP Wind	307
CEB Wind	409
Mini Hydro (Telemetered)	3,922
IPP Solar (Bulk)	308
IPP Waste heat + Biomass	321
Total Generation (Excluding estimated figures)	44,853
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	235
* Estimated IPP Solar PV (Bulk 1-10MW)	324
* Estimated Solar Roof Top PV	2,760
Total Generation (Including estimated figures)	48,172

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	494	53.92%
CEB Coal	198	21.55%
CEB Thermal Oil	11	1.21%
IPP Thermal	19	2.06%
IPP Wind	12	1.29%
CEB Wind	13	1.38%
Mini Hydro *	96	10.43%
IPP Solar *	67	7.34%
IPP Waste heat + BMP	8	0.82%
Total	917	

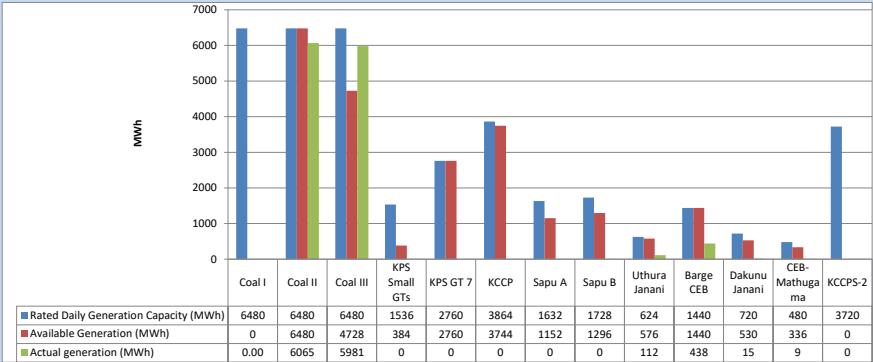
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	5,233	32.35%
CEB Coal	5,348	33.06%
CEB Thermal Oil	1,523	9.42%
IPP Thermal	754	4.66%
IPP Wind	395	2.44%
CEB Wind	378	2.34%
Mini Hydro *	1,350	8.35%
IPP Solar *	1,039	6.43%
IPP Waste heat	153	0.95%
Total	16,175	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

December 20, 2024

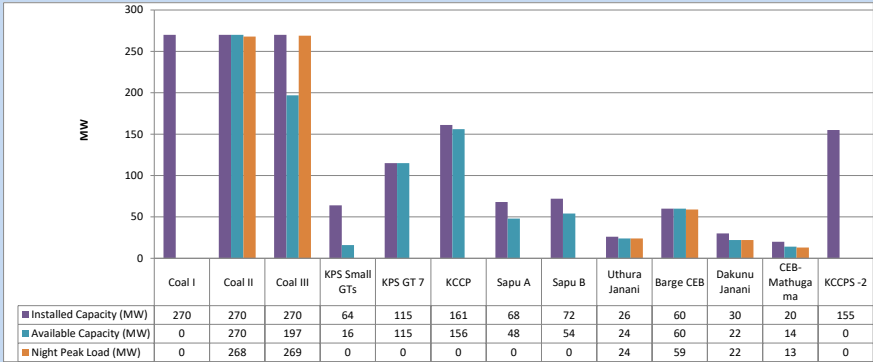


Available Generation is estimated based on plant availability at 6.00am on

December 21, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

December 20, 2024

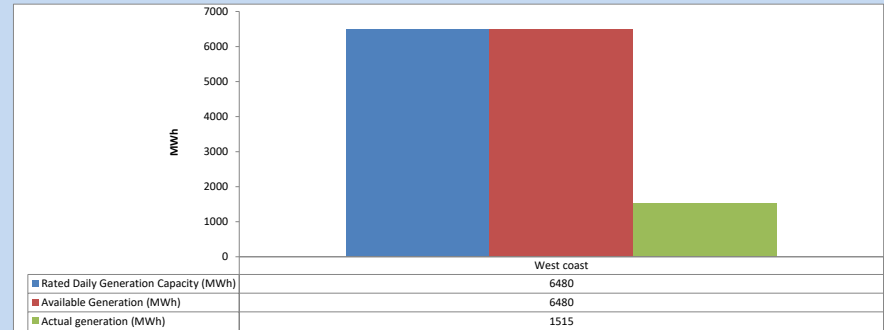


Plant availability is recorded at 6.00 am on

December 21, 2024

1.4 IPP owned Thermal Plant Dispatch

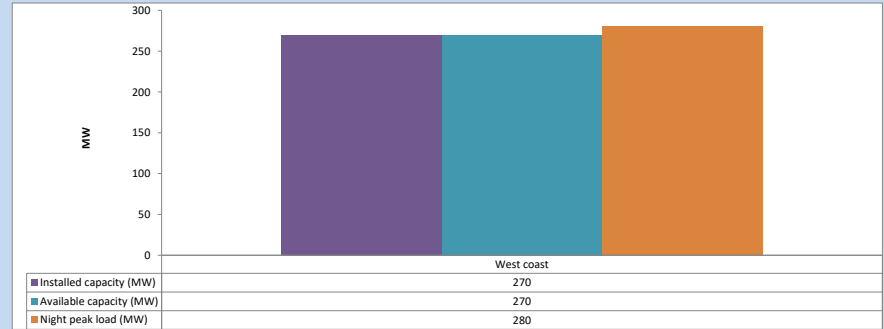
December 20, 2024



Available Generation is estimated based on plant availability at 6.00am on

December 21, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

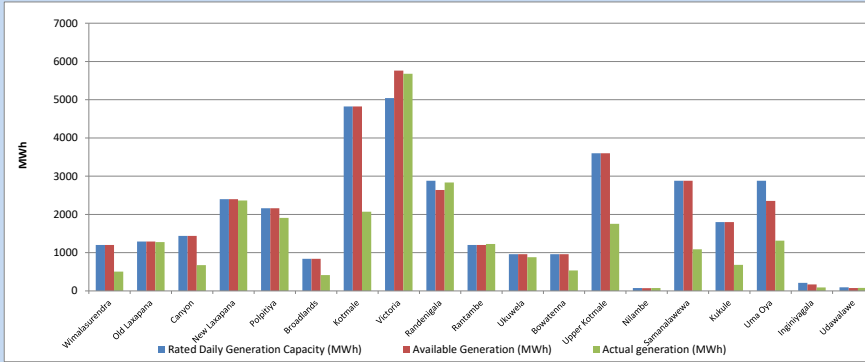


Plant availability is recorded at 6.00 am on

December 21, 2024

1.6 Major Hydro Plant Dispatch

December 20, 2024

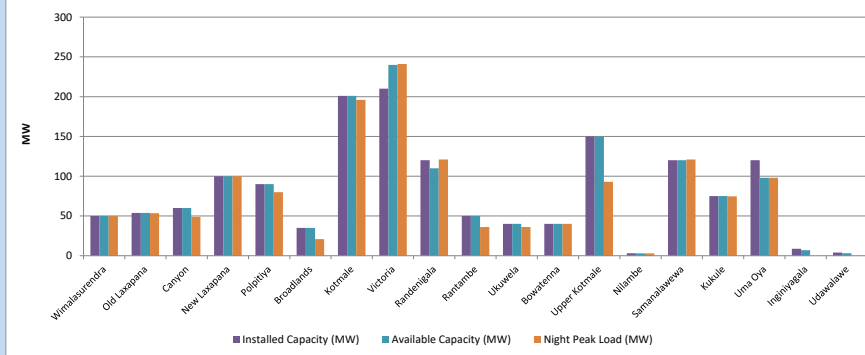


Available Generation is estimated based on plant availability at 6.00am on

December 21, 2024

1.7 Major Hydro Plant Loading at Night Peak

December 20, 2024



Plant availability is recorded at 6.00 am on

December 21, 2024

1.8 Summary of Major Plant performance

December 20, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	50	505
Old Laxapana	54	54	54	1,276
Canyon	60	60	49	675
New Laxapana	100	100	100	2,364
Polpitiya	90	90	80	1,910
Broadlands	35	35	21	413
Kotmale	201	201	196	2,070
Victoria	210	240	241	5,679
Randenigala	120	110	121	2,834
Rantambe	50	50	36	1,227
Ukuwela	40	40	36	881
Bowatenna	40	40	40	535
Upper Kotmale	150	150	93	1,753
Nilambe	3	3	3	74
Samanalawewa	120	120	121	1,088
Kukule	75	75	75	683
Uma Oya	120	98	98	1,314
Inginigala	9	7	0	92
Udawalawe	4	3	0	79
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	268	6,065
Puttalam Coal III	270	197	269	5,981
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	156	0	0
Sapugaskanda A	68	48	0	0
Sapugaskanda B	72	54	0	0
Uthura Janani	26	24	24	112
Barge CEB	60	60	59	438
CEB-Hambantota	30	22	22	15
CEB-Mathugama	20	14	13	9
KCCPS-2	155	0	0	0
West Coast	270	270	280	1,515
Sobadhanavi	220	212	0	0
Total	3,602	2,772	2,573	44,854

Note-

Plant availability is the availability recorded at 6 am on

December 21, 2024

1.9 Contribution to the Night Peak in MW

December 20, 2024

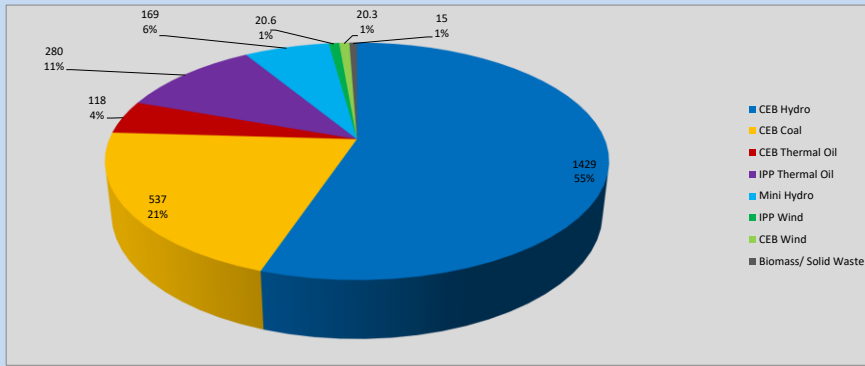


Table 05

CEB Hydro	1,429	MW
CEB Coal	537	MW
CEB Thermal Oil	118	MW
IPP Thermal Oil	280	MW
Mini Hydro (Telemetered)	169	MW
IPP Wind	20.6	MW
CEB Wind	20.3	MW
Biomass/ Solid Waste	15	MW

Recorded Peak Demand Data

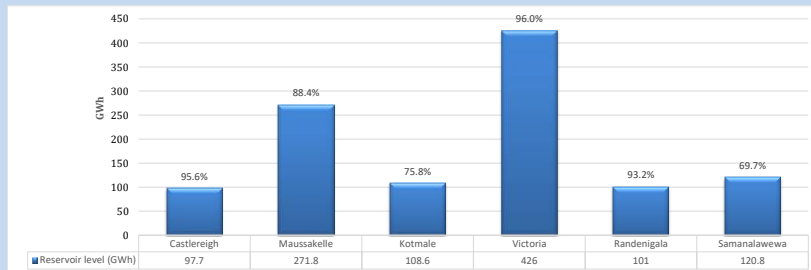
Table 06

Night Peak*	2,589	MW
Day Peak Maximum Demand	2,224	MW
Day Peak Minimum Demand	1,688	MW
Off Peak Minimum Demand	1,450	MW

Above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

1.10 Reservoir Levels -

as at 06.00 Hr on December 21, 2024



Total Reservoir Level
% of Total capacity

1,126 GWh
88.1%

1.11 Day Ahead Planned Demand Vs Actual Demand (Excluding non telemetered data)

December 20, 2024

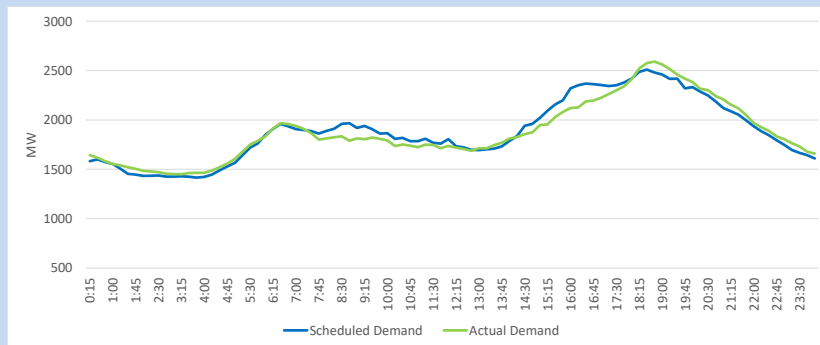
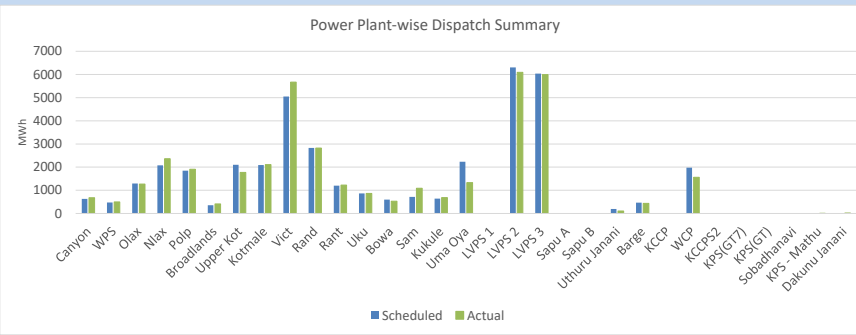


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	25,004	25,451	447
CEB Coal	12,339	12,046	(293)
CEB Thermal Oil	665	574	(91)
IPP Thermal Oil	1,977	1,515	(462)
NCRE (excluding non telemetered power plants)	5,255	5,267	12
Total	45,240	44,853	(387)

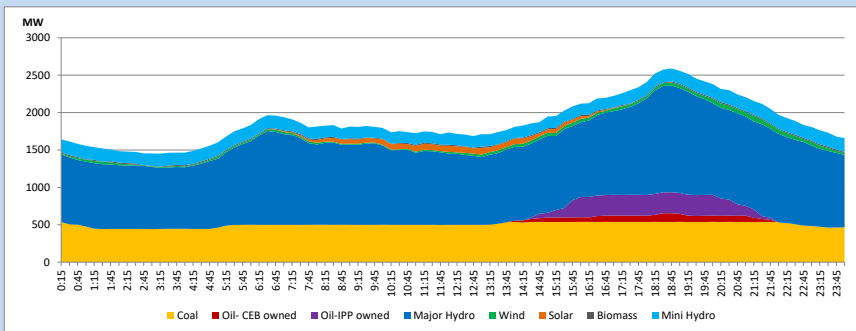
1.12 Power Plant-wise Dispatch Summary

December 20, 2024



1.13 Daily Load Curve

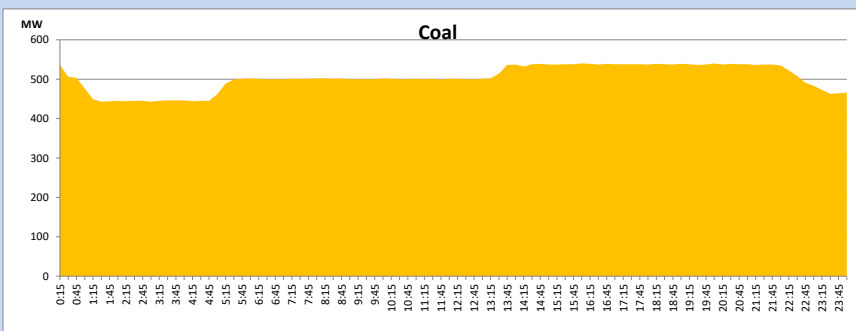
December 20, 2024



Solar and wind data is based on Telemetered Power Stations only

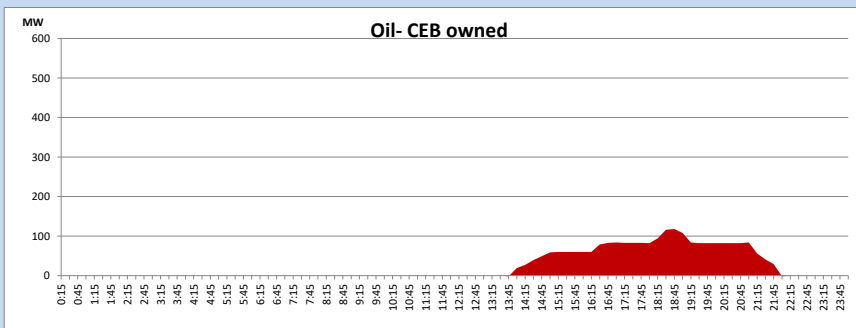
Coal Generation during

December 20, 2024



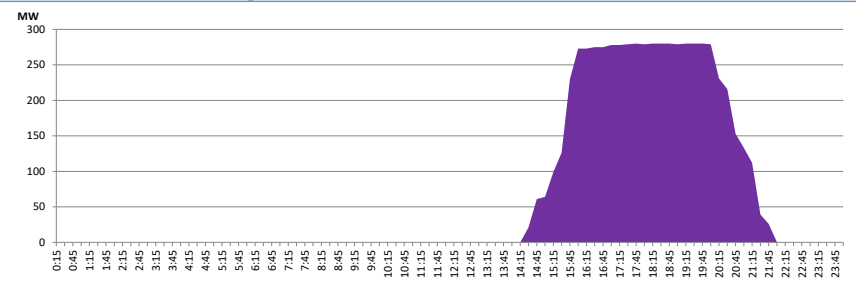
CEB Oil Plant Generation during

December 20, 2024



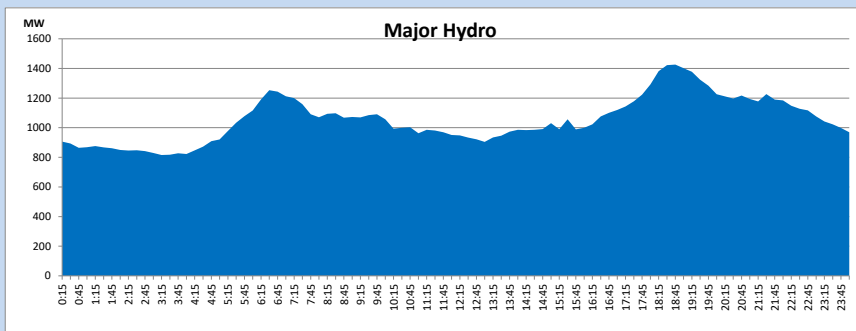
IPP Oil Plant Generation during

December 20, 2024



Major Hydro Generation during

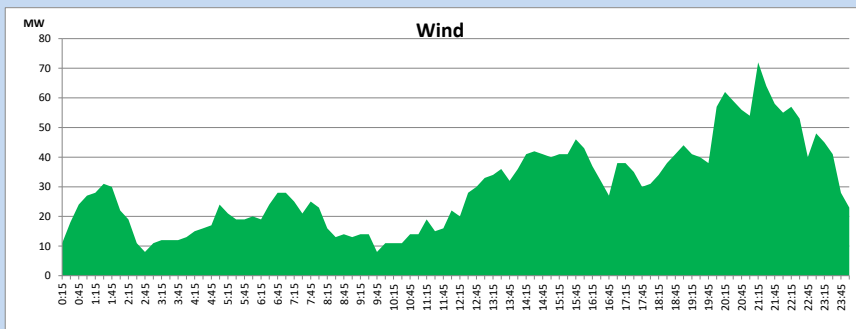
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Wind Generation during

December 20, 2024

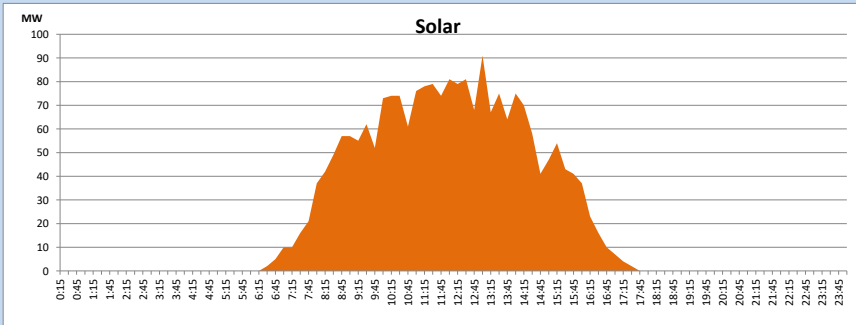
Based on Telemetered Power Stations only



Solar Generation during

December 20, 2024

Based on Telemetered Power Stations only

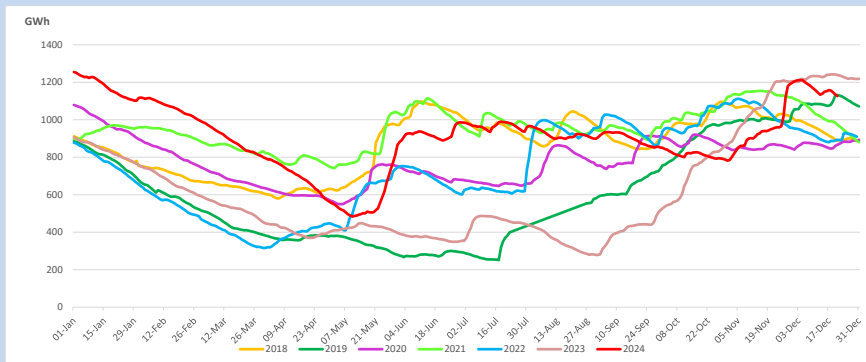


1.14 Major Incidents reported during the day

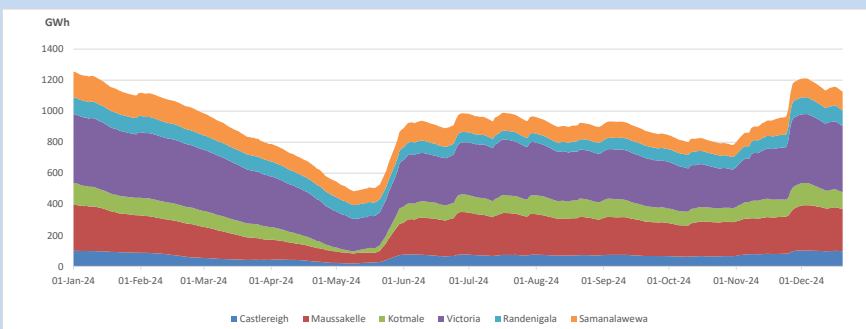
December 20, 2024

- 1) Biyagama 220/132/33kV T/F 02 which tripped on 19/12/2024, was normalized at 18:14hrs.

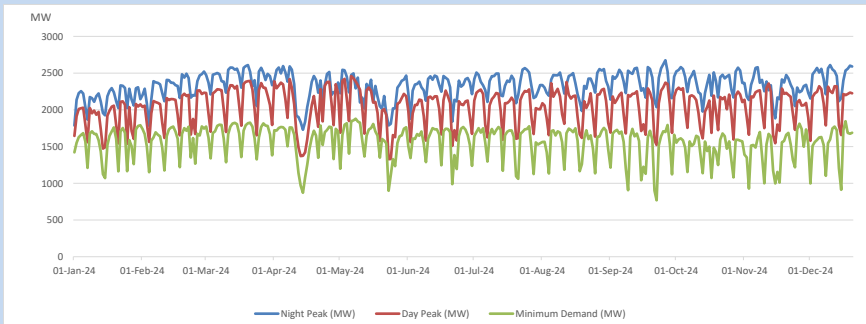
2. Comparison of Total Reservoir Storage Levels with Past Years



3. Variation of Major Hydro Reservoir Levels in the current year (GWh)

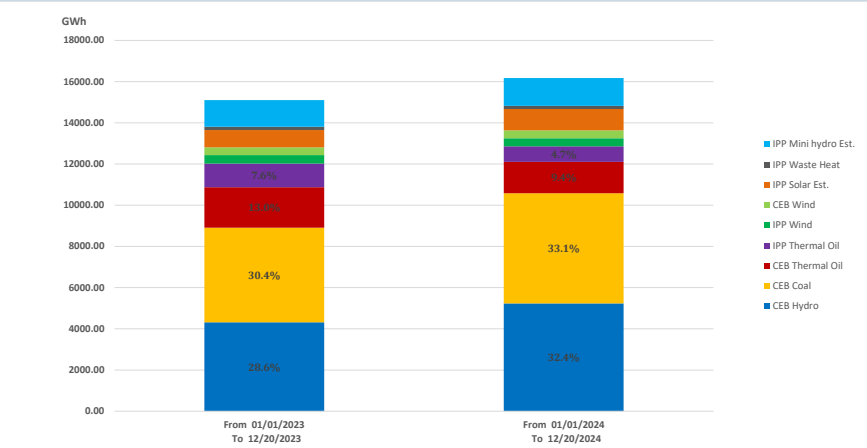


4. Variation of Demand during the current year



The above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

5. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch
From 01/01/2023 To 12/20/2023 15,104 GWh
From 01/01/2024 To 12/20/2024 16,175 GWh

The above figures are including contribution from roof top solar, non telemetered solar and mini hydro plants)
Unservd energy due to power cuts has been excluded in 2023

Thermal Power Plant - Fuel types

Table 08

Power Station	Primary Fuel
CEB Thermal	
Sapugaskanda 1	Heavy Fuel
Sapugaskanda 2	Heavy Fuel
Kelanitissa Small Gas Turbines	Auto Diesel
GT 7 - Kelanitissa	Auto Diesel
Kelanitissa CCY	Naphtha or Diesel
Lakvijaya 1	Coal
Lakvijaya 2	Coal
Lakvijaya 3	Coal
Uthuru Janani	Heavy Fuel
Barge CEB	Heavy Fuel
KCCPS -2	Auto Diesel

Power Station	Primary Fuel
Private Thermal	
West Coast	Auto Diesel / Heavy Fuel
Sobadhanavi	Auto Diesel

6. Installed System Capcity

Table 09

	Installed Capacity (MW)
CEB Hydro	1,531
CEB Coal	810
CEB Thermal Oil	771
IPP Thermal Oil (West Coast & Sobadhanavi)	482
IPP Wind	163
CEB Wind	100
Mini Hydro	422
IPP Waste heat + Biomass	54
IPP Solar	137
Rooftop Solar (Ordinary) -CEB	495
Rooftop Solar (LT Bulk) -CEB	338
Rooftop Solar (HT Bulk)- CEB	104
Rooftop Solar - LECO	245

Data Source - Monthly Review Report Aug 2024 for NCRE installed capacities